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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/348,494	07/07/1999	KJELL GUSTAFSSON	040070-244	5321	
21839 7:	590 07/29/2002				
BURNS DOANE SWECKER & MATHIS L L P			EXAM	EXAMINER	
POST OFFICE ALEXANDRIA	BOX 1404 A, VA 22313-1404		LY, NGHI H		
			ART UNIT	PAPER NUMBER	
			2682		
			DATE MAILED: 07/29/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)			
Advisory Action	09/348,494	GUSTAFSSON ET	AL.		
Advisory Action	Examiner	Art Unit			
	Nghi H. Ly	2682			
The MAILING DATE of this communication appe	-	orrespondence add	ress		
	LICATION IN CONDITION FOR roid abandonment of this applica a timely filed amendment which	ALLOWANCE. ation. A proper reply places the applica	y to a tion in		
PERIOD FOR RE	PLY [check either a) or b)]				
a) The period for reply expires <u>03</u> months from the mailing datb) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The	Advisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF TH	g date of the final rejection. E FINAL REJECTION.	on. See MPEP		
fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of to (2) as set forth in (b) above, if checked. Any reply received by the Office timely filed, may reduce any earned patent term adjustment. See 37 C	the shortened statutory period for reply to be later than three months after the mail	originally set in the final	Office action; or		
1. A Notice of Appeal was filed on Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.					
2. The proposed amendment(s) will not be entered be	ecause:				
(a) they raise new issues that would require further	er consideration and/or search (s	see NOTE below);			
(b) they raise the issue of new matter (see Note below);					
(c) they are not deemed to place the application ir issues for appeal; and/or	n better form for appeal by mate	rially reducing or sir	nplifying the		
(d) they present additional claims without cancelli	ng a corresponding number of fi	nally rejected claim	s.		
NOTE:					
Applicant's reply has overcome the following rejection	on(s):				
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	parate, timely filed	amendment		
5. ☑ The a) ☐ affidavit, b) ☐ exhibit, or c) ☑ request for application in condition for allowance because: See	reconsideration has been consideration has been consideration has been considerated to arguments.	dered but does NO ⁻ <u>ent"</u> .	Γ place the		
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	o issues which were	e newly		
7. For purposes of Appeal, the proposed amendment (explanation of how the new or amended claims wo			ind an		
The status of the claim(s) is (or will be) as follows:					
Claim(s) allowed: <u>3-5 and 14-16</u> .					
Claim(s) objected to:					
Claim(s) rejected: <u>1-2,6-13 and 17-20</u> .					
Claim(s) withdrawn from consideration:					
8. The proposed drawing correction filed on is a	a) approved or b) disappi	oved by the Examir	ner.		
9. Note the attached Information Disclosure Statemen	t(s)(PTO-1449) Paper No(s)	•			
10. Other:					

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 07/12/02 have been fully considered but they are not persuasive.

Applicant argues that "antennas receive radio signals, but they do not involve processing and therefore cannot be described as frequency processing circuits."

In response, it is clear that the antenna 18a in Conner et al has a function to receive electromagnetic wave from the air, convert electromagnetic wave into electrical RF wave, and couple the converted RF electrical wave to the transceiver circuit.

Therefore, the antenna disclosed in Conner et al is a frequency processing circuits.

Applicant further argues that "taking this motivation and the specific teaching of using one RF FM receive 13 with two antenna 18 and 20, the only modification the Conner et al. patent would suggest to prior art Figure 3 of present applicant is a modification which would result in something more akin to prior art figure 2 where there are two antenna and one RF processor."

In response, the Examiner disagrees. The Applicant's admitted prior art (see fig.3) teaches everything (two antennas and two RF processors) except the control signal ON/OFF for controlling the RF processing. The Conner et al teaches only one of a frequency processing circuits is always connected to the receiver, and the other frequency processing circuits is switched ON/OFF base on control signal (see Conner column 1 lines 50-59 which states "Switching circuitry closes or opens the switch to connect one antenna or plurality of antennas to the rest of the receiver circuitry when

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the signal strength drops below a certain threshold"). Since the opening and closing states of the frequency processing circuit 18A is determined based on the quality of the received signal, the frequency processing circuit 18a must based on a determination as to whether diversity is appropriate. Therefore, the combination figure 3 of Applicant's admitted prior art and the teaching of Conner et al teaches Applicant's figure 4.

In addition, the examiner believes that in this case it is very important to characterize what the combination of the admitted prior art of figure 3 and Conner results. After the combination of the admitted prior art of figure 3 and Conner is made, the RF processing circuit 330 of the modified admitted prior art of figure 3 will be ON at all times (as suggested by Conner because the circuit 20 in Conner is ON at all times); the RF processing circuit 332 of the modified admitted prior art of figure 3 will be ON or OFF based upon whether the diversity is appropriate (as suggested by Conner because the circuit 18 in Conner is either ON or OFF based upon whether the diversity is appropriate. More specifically, if the signal strength is low then the diversity is needed). Therefore, it is apparent that after the combination of the admitted prior art of figure 3 and Conner is made, the modified admitted prior art of figure 3 discloses all the claimed limitations.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (703) 605-5164. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (703) 308-6739. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Nghi Han Ly

July 26, 2002

NGUYENT.VO
PRIMARY EXAMINER